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(54) System for controlling data transmission in an ATM switching network.

(57) A transmission control system includes an ATM switching network (3), terminals (1-1 - 1-n, 1'-n) and terminal adapters (2-1 - 2-n) respectively connected to the plurality of terminals. The transmission control system also includes a table circuit (4) registering virtual channels presently formed in the ATM switching network in a management table, and a retrieval part (5) for receiving a communication request from one of the terminals and for determining whether or not the management table registers a virtual channel corresponding to the communication request at present. Data output from the one of the terminals is transferred to a different one of the terminals addressed by the communication request through the virtual channel corresponding to the communication

request and corresponding two of the terminal adapters when the retrieval part determines that the management table has the virtual channel corresponding to the communication request. A virtual channel setting part (5) registers the virtual channel corresponding to the communication request in the management table when the retrieval processor determines that the management table does not have the virtual channel corresponding to the communication request. Data output from the one of the terminals is transferred to the different one of the terminals addressed by the communication request through the virtual channel registered in the management table by the virtual channel setting part.

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FIG. 3

